

# Geometry Date\_\_\_\_\_ 1.5 Assignment

## Segment and Angle Bisectors (pp 34-37)

- I can define a midpoint and bisector.
- I can use midpoints and bisectors to solve problems.

1. What is your name?

Find the coordinates of the midpoint of a segment with the given endpoints.

2.  $A(-7, 2)$   
 $B(3, 0)$

3.  $G(3.2, 7.8)$   
 $H(-2, 5)$

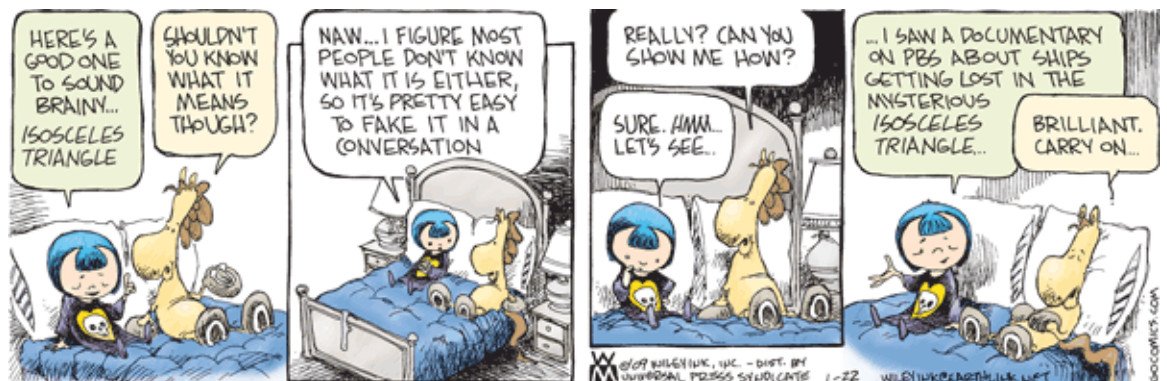
4.  $K(-3.5, 2.7)$   
 $L(7.3, -6.1)$

Find the coordinates of the other endpoint of the segment with the given endpoint and midpoint  $M$ .

5.  $T(4, 1)$   
 $M(3, 0)$

6.  $A(-4.4, 3)$   
 $M(-1.6, -1)$

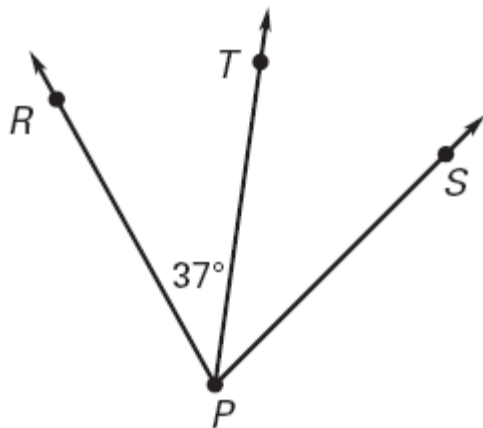
7.  $P(7.8, 3.5)$   
 $M(2, -1.2)$



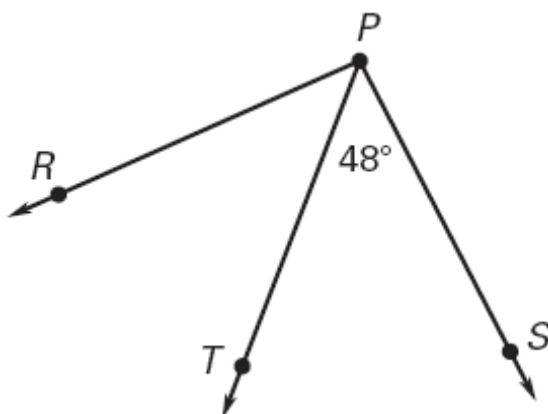
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$\overline{PT}$  is the angle bisector of  $\angle RPS$ . Find the two angle measures not given in the diagram.

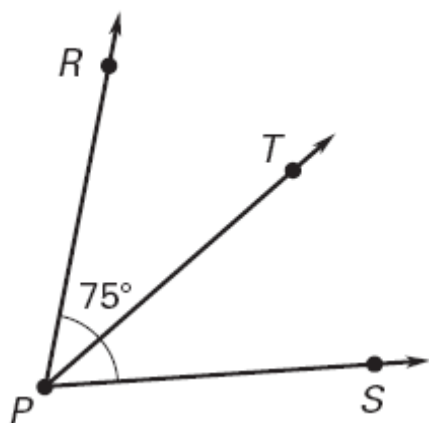
8.



9.



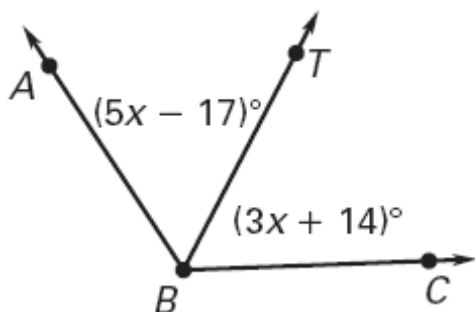
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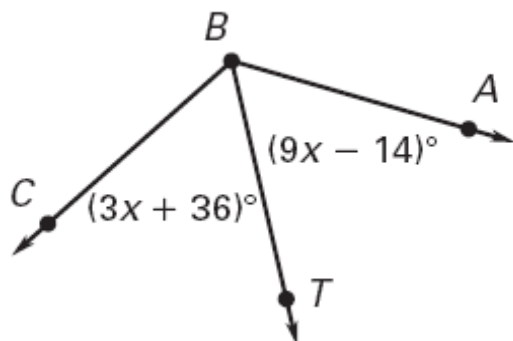
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$\overline{BT}$  bisects  $\angle ABC$ . Find the value of  $x$ .

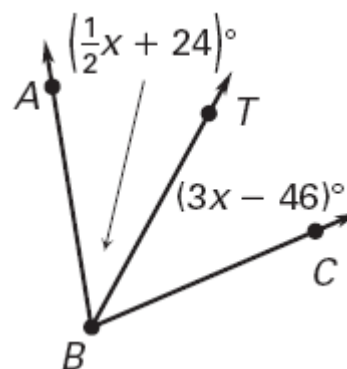
11.



12.



13.



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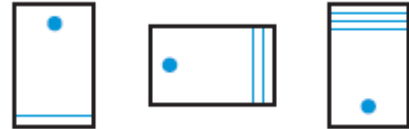
**Review.**

Sketch the next figure in the pattern. (Chapter 1 Section 1)

14.



15.



Find the distance between the two points. (Chapter 1 Section 3)

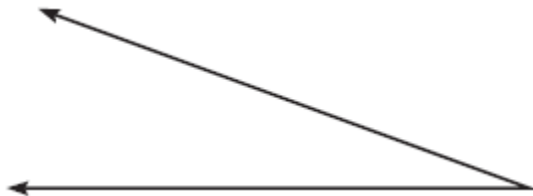
16. C(-6, 9) & D(-2, -7)

17. J(-4, -5) & K(5, -1)

18. E(8, -8) & F(2, 14)

19. L(-10, 1) & M(-4, 9)

20. Use a protractor to find the measure of the angle. (Chapter 1 Section 4)



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Use a protractor to find the measure of the angle. (Chapter 1 Section 4)

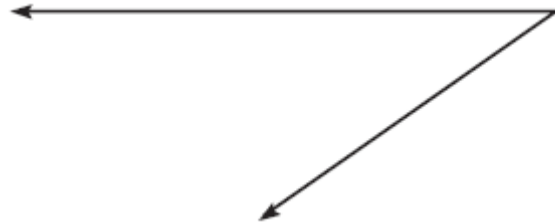
21.



22.

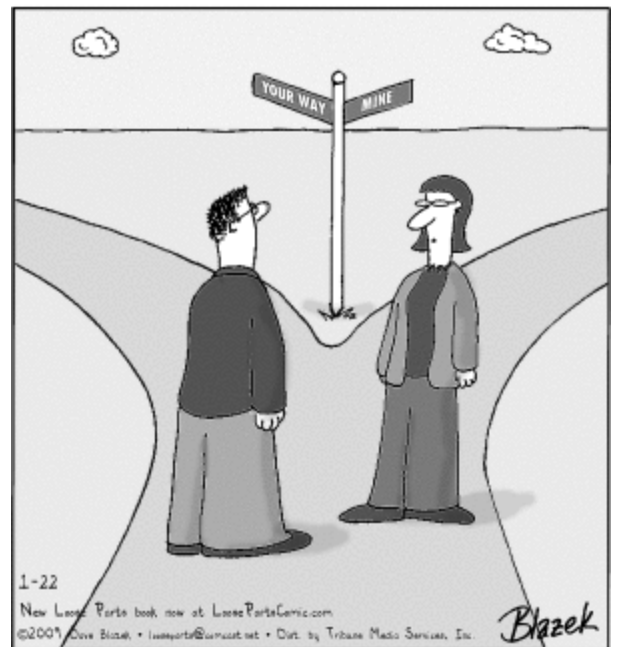


23.



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"Well, Daniel, I guess this is where  
you go your way and I go mine."